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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/678,186	10/06/2003	Dexter V. Bautista	DIX009-162	2337
7590 07/14/2005 DIEDERIKS & WHITELAW, PLC 124 Dillingham Square, #301 Woodbridge, VA 22192			EXAMINER	
			BEAUCHAINE, MARK J	
			ART UNIT	PAPER NUMBER
,			3653	
•			DATE MAILED: 07/14/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/678,186	BAUTISTA ET AL.
Office Action Summary	Examiner	Art Unit
	Mark J. Beauchaine	3653
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet wit	h the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply within the statutory minimum of thirty will apply and will expire SIX (6) MONTe, cause the application to become AB	ply be timely filed (30) days will be considered timely. "HS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status		
 1) ⊠ Responsive to communication(s) filed on 06 € 2a) ☐ This action is FINAL. 2b) ⊠ This 3) ☐ Since this application is in condition for alloware closed in accordance with the practice under the condition of the cond	s action is non-final. ance except for formal matte	•
Disposition of Claims		
4) ⊠ Claim(s) <u>1-23</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☒ Claim(s) <u>1-8,10 and 16-21</u> is/are rejected. 7) ☒ Claim(s) <u>9,11-15,22 and 23</u> is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.	
Application Papers		
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 06 October 2003 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the E	e: a) \boxtimes accepted or b) \square of a drawing(s) be held in abeyanction is required if the drawing(ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list 	its have been received. Its have been received in Apority documents have been au (PCT Rule 17.2(a)).	oplication No received in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 10/6/03.	Paper No(s	ummary (PTO-413))/Mail Date formal Patent Application (PTO-152)

Application/Control Number: 10/678,186

Art Unit: 3653

DETAILED ACTION

Inventorship

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-8, 10 and 16-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Patent Number US 6,640,994 B2 by Chen in view of Patent Number 4,359,147 by Levasseur. The vending apparatus disclosed by the '994 patent incorporates machine body 10, magazines 17-21 and chute 35 that read on the Applicant's cabinet frame, stack areas and delivery chute, respectively. Although said

'994 patent fails to specifically disclose a sound-type vend sensor, it does incorporate an optical detector that is located in the chute area (see Figure 3) and consists of a light curtain 37. Furthermore, said detector is configured to detect "a product 36 [that] has fallen through [said] light curtain 37" (column 4, lines 16 plus). Said '994 patent further discloses that "[e]xisting [vending] machines currently use ultrasonic devices [] for detecting the movement of a product the chute to the tray" (column 2, lines 3 plus).

The '147 patent teaches a vending control system that incorporates a sensor element 278 that "may include [] an accoustic (*sic*) detector means [that] is activated by a product being delivered" (column 7, lines 54 plus). Accordingly, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the acoustic sensor arrangement of the '147 patent into the vending apparatus of the '994 patent to provide an effective product delivery detection means.

Claims 19-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over the '994 and '147 patents as applied to claim 16 above, and further in view of Patent Number 3,569,924 by Drake et al. Regarding claim 19, said ''924 patent teaches an acoustic detector that incorporates cones 18 and 22 that read on the Applicant's cone members. Regarding claim 20, although the '147 patent fails to specifically disclose the step of sound amplification, such an enhancement of a sound detection beam is well known in the art. The '924 patent teaches an ultrasonic detection system that incorporates ultrasonic beam 20 that is amplified by amplifier 24.

Claims 9, 11-15, 22 and 23 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The following prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Patent Number 4,869,392 by Moulding, Jr. et al because of its photodiode 52.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark J. Beauchaine whose telephone number is (571)272-6934. The examiner can normally be reached on 8:00AM through 5:00PM Mondays through Thursdays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald P. Walsh can be reached on (571)272-6944. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

mjb

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